

### **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1 - 29. (Canceled)

30. (Currently amended) A service providing method for providing services for a user, said method comprising:

using a sentient network generating device for building a sentient network for the user by:  
collecting information of the user, the plurality of the physical devices available to the user, and an environment related to the user;

generating a device object for each physical device available to the user, said device object comprising a data item with identifying information of the physical device;

generating a user object for the user, said user object comprising a device data item comprising identifying information for each device object;

constructing a virtual world with the user object, the device objects and the environmental information;

associating the user object with the device objects, wherein the associating comprises matching the identifying information of the device objects in the device data item of the user object with the identifying information in the data item of the device objects; and

generating a virtual device operating environment for the user based on the information from the sentient network, wherein said virtual device operating environment comprises a virtual device serving as a service interface between the user and a service provider;

wherein the sentient network includes a user object and one or more device objects available to the user object, the sentient network generating device comprising: a user

management portion for receiving the registration request of at least one user and for building the user object(s) for the user(s); a device management portion for receiving the registration request of at least one device and for building the device object(s) for the device(s); an associating portion for associating a user object with at least one of the device object(s) to generate a sentient network;

using the virtual device for:

receiving a service request sent from the user object desiring a service from the service provider;

sending the service request and the information from the sentient network to the service provider to ask the service provider to provide a service type information and the device object capabilities requirements information of the service types that can satisfy the service request;

selecting one service type from the service types of the services provided by the service provider;

determining the device object to receive the service information based on the device object capabilities; and

distributing the service information to the determined device object for processing.

31. (Previously Presented) The service providing method of claim 30 wherein the step of selecting the one service type comprises:

receiving the service type information and the device object capabilities requirement from the service provider;

selecting the service type suiting the capabilities of available device objects from the service types provided by the service provider based on the device object information;

notifying the service provider of the selected service type; and

obtaining the available device object information from the sentient network.

32. (Previously Presented) The service providing method of claim 30 wherein using the sentient network generating device further comprises monitoring whether available physical

service information and the user information has changed.

33. (Previously Presented) The service providing method of claim 31 wherein selecting the service type further comprises basing said selection on the user object information.

34. (Previously Presented) The service providing method of claim 31 further comprising obtaining the user object information from the sentient network.

35. (Previously Presented) The service providing method of claim 34 wherein obtaining the user object information comprises obtaining user favorite information.

36. (Previously Presented) The service providing method of claim 32 further comprising determining a new service type for the user when the available physical service information has changed.

37. (Previously Presented) The service providing method of claim 31 further comprising:

filtering the available device objects based on user favorite information of the device to accept the services obtained from the user object.